

FIG. 1

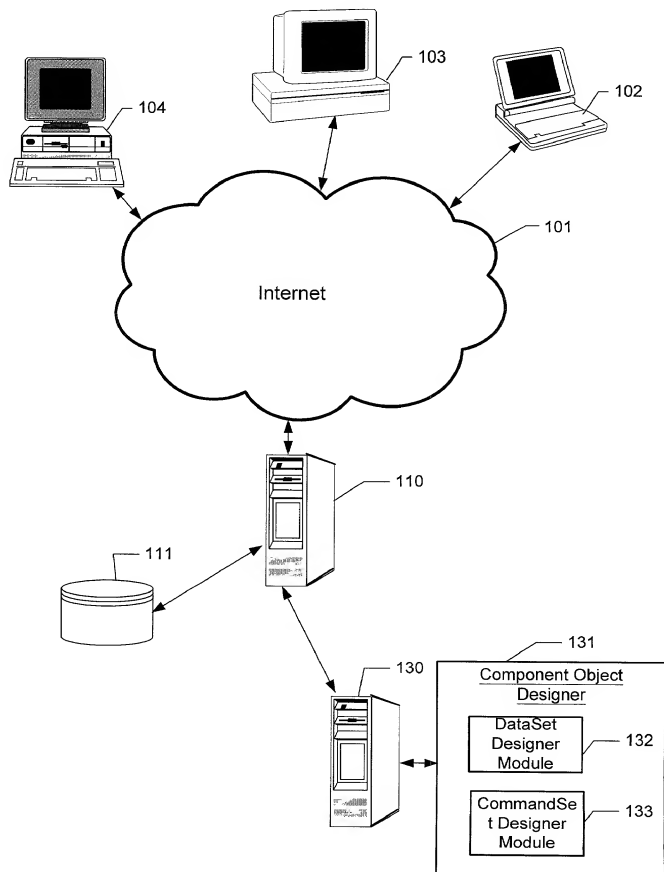


FIG. 2

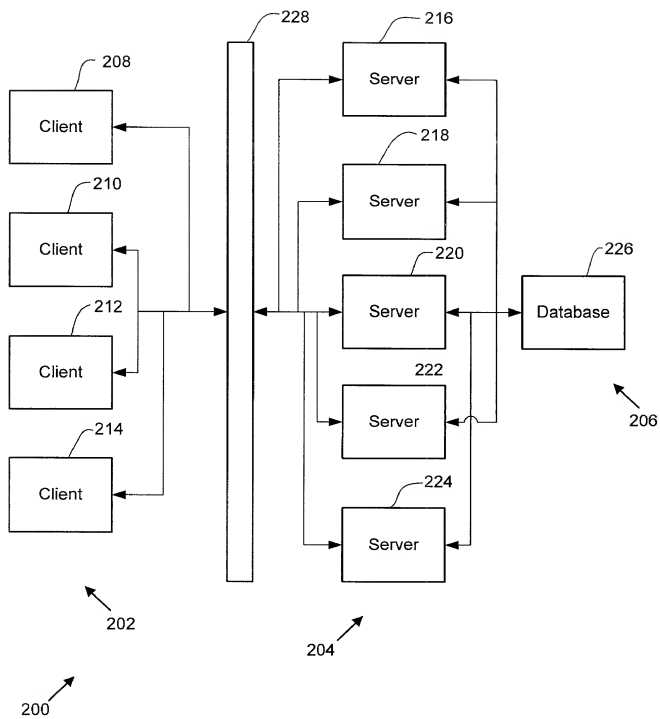


FIG. 3

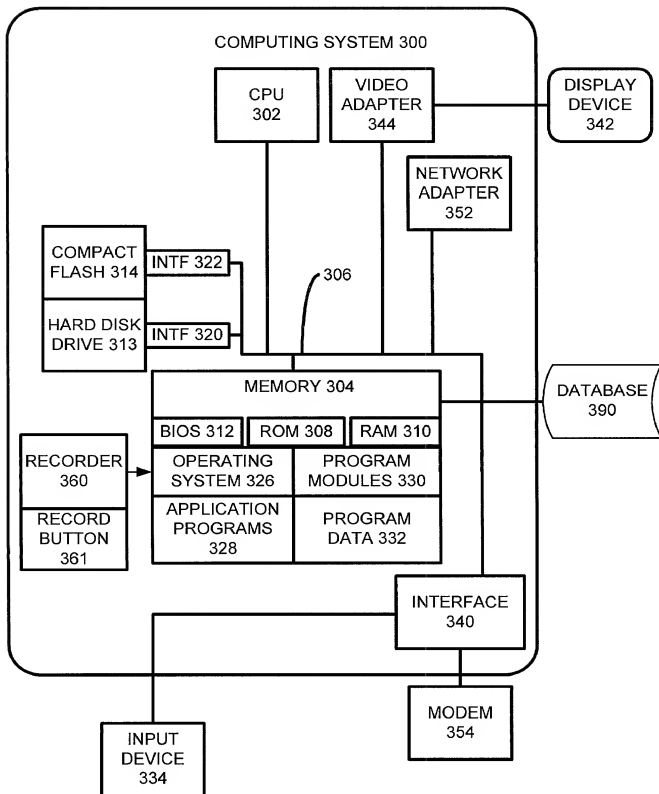


FIG. 4

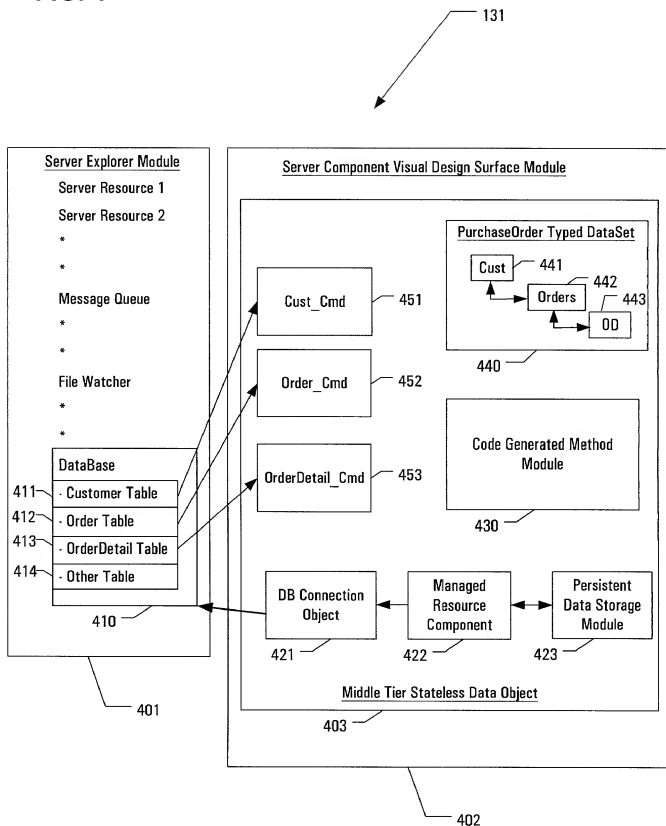


FIG. 5

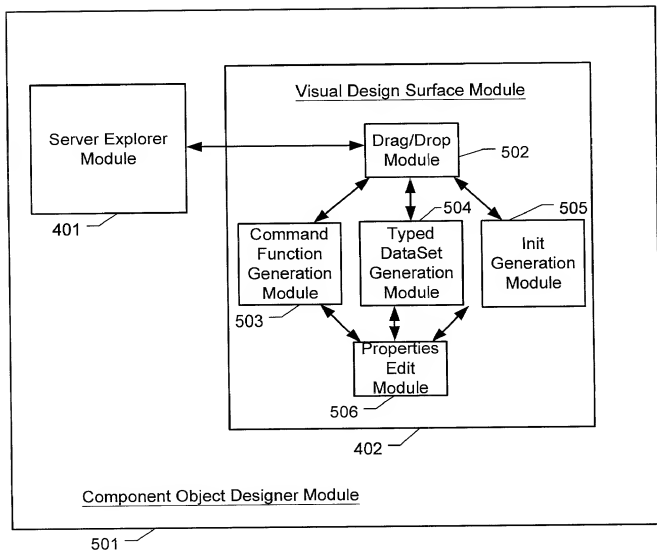


FIG. 6

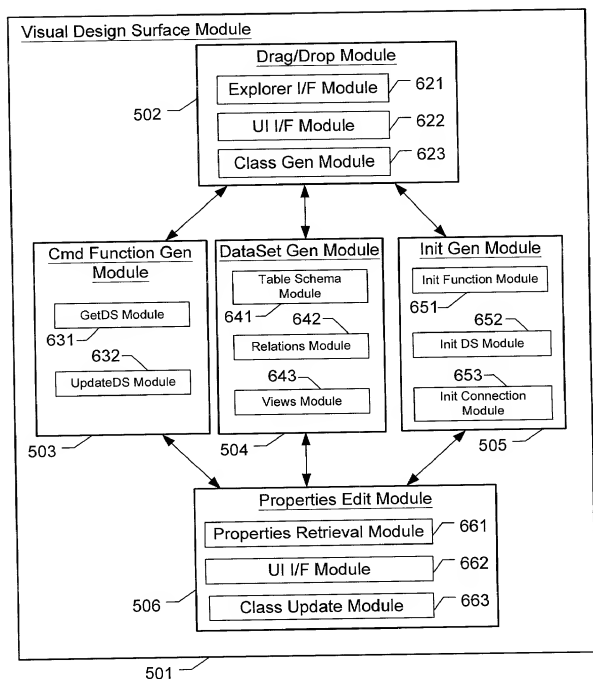


FIG. 7a

FillDataSet Method

```
Public Function XXXXFillDataSet(ByVal dataSet As DataSet {,ByVal
{ParameterName} As System.{ParameterType}}) As Long

' Copy input Parameter Values to the Parameter Collection
    DIM vtParameter As Variant
    vtParameter1 = {ParameterName}
    Set
{AdapterInstance}.SelectCommand.Parameters.Item(ParameterName.Value=vtParamet
er1
'Create an error handling block in case filldataset throws an exception
    Try
'Load dataSet from the command
    XXXXFillDataSet = {AdapterInstance}.FillDataSet(dataset)
    Catch eFillException As Exception
        'if we can do a debug.print without a reference, then we should print the
        'error info to the output window and re-throw the error.
    End
End Function
```




FIG. 7b**UpdateDataSet Method**

Public Function XXXXUodateDataSet (ByVal updateDataSet As DataSet) As Long

```
    const DataCursorRowState flag = DataCursorRowState.new |  
DataCursorRowState.Deleted | DataCursorRowState.ModifiedCurrent;  
    DataRow[] datarows = dataTable.Select(" ", " ", flag);
```

```
    Dim UpdateRows as DataRows()  
    Dim NewRows as DataRows()  
    Dim DeletedRows as DataRows()
```

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```
' Get All of the Deleted Rows and Update the Data Store  
    DeletedRows = UpdateDataSet.Select(" ", " ", DataCursorRowState.Deleted)  
    If 0 < dataRowLength then  
        Update(DeletedRows, AdapterInstance.DefaultSourceTableName);  
    End If  
  
' Get All of the Updates Rows and Update the Data Store  
    UpdatedRows = UpdateDataSet.Select(" ", " ",  
DataCursorRowState.ModifiedCurrent)  
    If 0 < dataRowLength then  
        Update(DeletedRows, AdapterInstance.DefaultSourceTableName);  
    End If  
  
' Get All of the New Rows and Update the Data Store  
    NewRows = UpdateDataSet.Select(" ", " ", DataCursorRowState.New)  
    If 0 < dataRowLength then  
        Update(DeletedRows, AdapterInstance.DefaultSourceTableName);  
    End If
```

End Function

FIG. 8a

FillAllDataSet

Public Sub FillAllDataSet(**ByVal** dataset **As** DataSet, **ByVal** Parameters **As** System.{ParameterType})

' The line below is added for each adapter on the Virtual Design Surface

' Passing into the function only the necessary parameters

(AdapterName1)FillDataSet dataset{, _parameters}

(AdapterName2)FillDataSet dataset{, _parameters}

*

*

(AdapterNameN)FillDataSet dataset{, _parameters}

End Sub

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FIG. 8b

UpdateAllDataSet

Public Sub Update{DataSetName} (**ByVal** dataset **As** DataSet)

' The line below is added for each adapter on the Virtual Design Surface

(AdapterName1)Update dataSet

(AdapterName2)Update dataSet

*

*

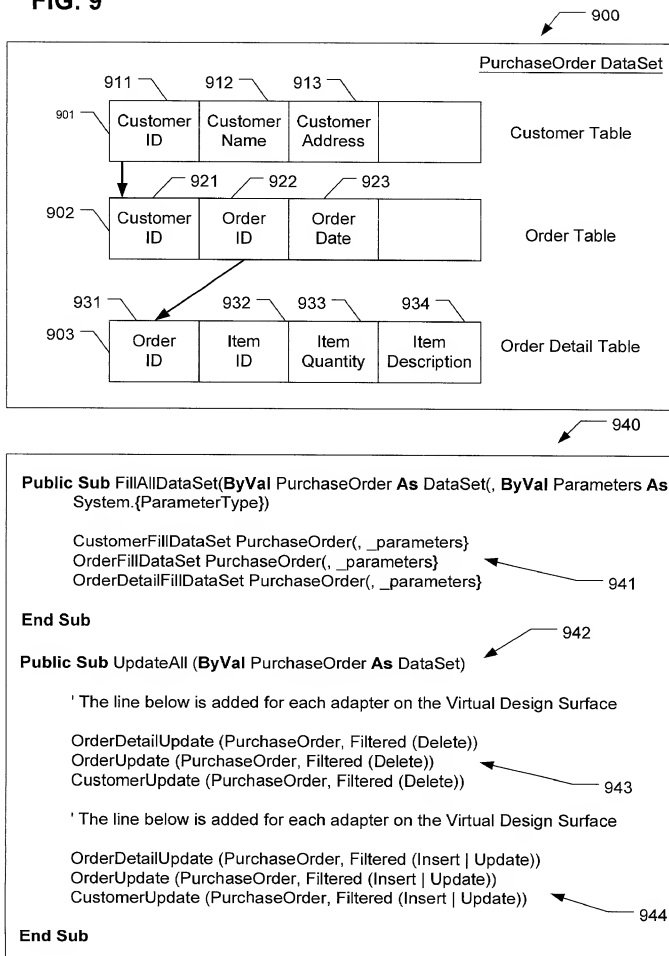
(AdapterNameN)Update dataSet

End Sub

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FIG. 9



[illegible]